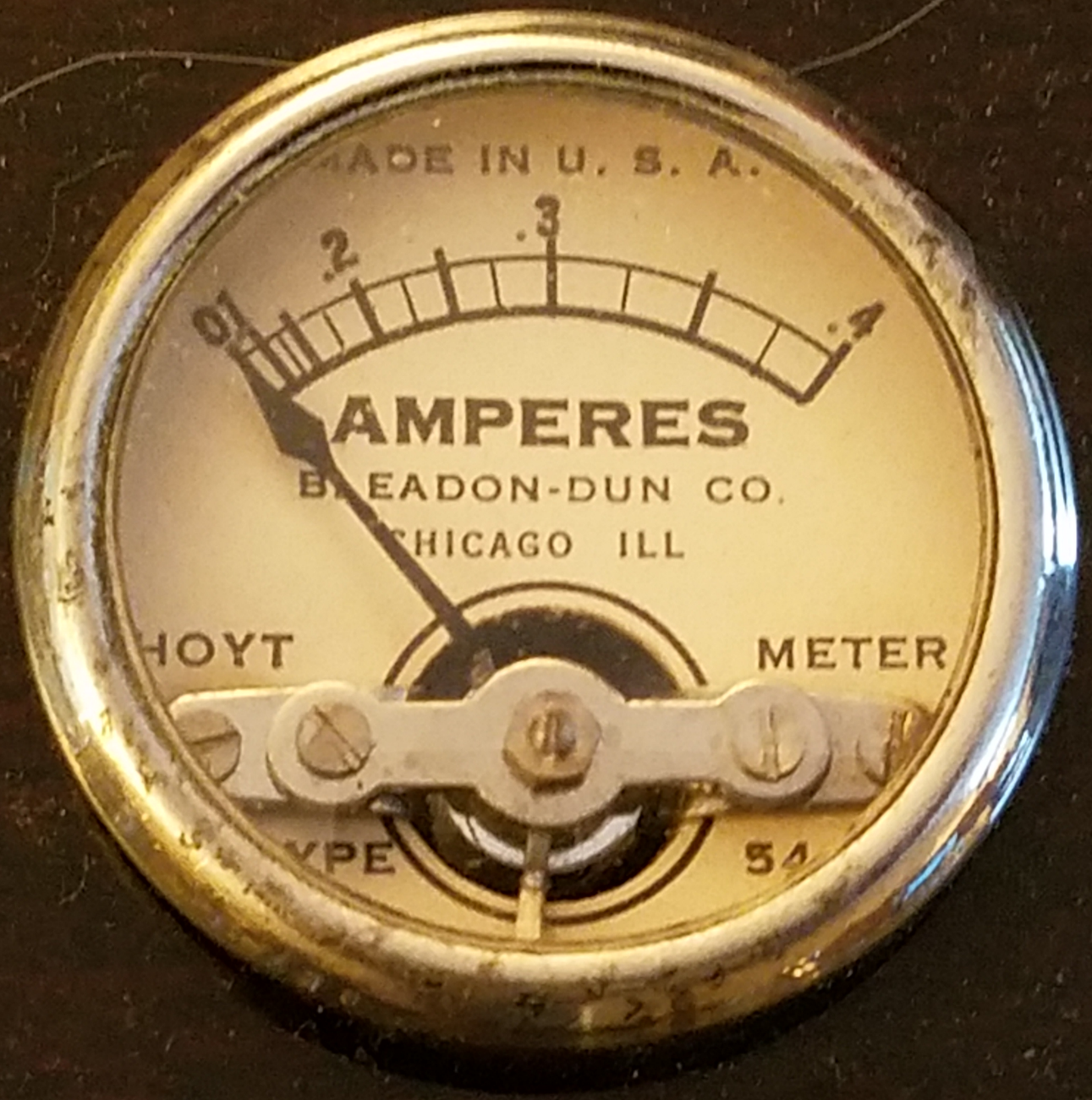

MADE IN U. S. A.
0
.2
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AMPERES
EADON-DUN CO.
CHICAGO ILL
HOYT
METER
YPE
54

OZONE



















180
Religious
Soliciting






From
K. SCHALL,
Electro Medical Instrument Maker,
55, WIGMORE STREET,
LONDON, W.

**SLIDE RULE,** for calculating X Ray Exposures.

DISTANCE BETWEEN ANTICATHODE AND PLATE, IN CTM.

THICKNESS OF THE OBJECT, IN CTM.

PENETRATING POWER OF THE TUBE, IN WEHNELT UNITS

CURRENT PASSING THROUGH THE TUBE, IN MILLI AMPERES

EXPOSURE IN SECONDS

# DIRECTIONS FOR USE.

To calculate the required length of Exposure:

1. Measure the distance between the anticathode and plate, in ctm.
2. Measure the thickness of the object to be photographed, in ctm.
3. Measure the penetrating power of the tube by means of a Wehnelt Radiometer.
4. Measure the number of Milli Amperes to be used in the tube.

To obtain correct results, it is **necessary** that the M. A. meter used should be of the d'Arsonval type, that the reverse current should be excluded, and that special X ray plates should be used.

The line which corresponds to the thicknes of the object has to be brought opposite the line indicating the distance between anticathode and plate.

The line indicating the number of M. A. has to be brought opposite the line corresponding to the penetrating power. When this has been done, the arrow points to the exposure time in seconds.

The exposure meter is calculated for objects of average opacity. If the parts to be taken are more transparent than the average, like the lungs, 20 to 30 % have to be **deducted**, if the parts are more opaque than the average, like the pelvis or the skull, the same amount has to be **added** to the actual thickness found with the centimeter rule.


9
8
10

I had a Plate of
a detector that Deforest
had made out of the
aluminium from a
tea kettle. When
the filament was
turned on it would
go flat because the
impurities would cause
Gas to form. I got
the plate of a broken
tube from my friend
the marked with
Deforest. while he
was trying to make
a detector

L Melaka


B+
A+
GND
C-
AIR
A+



ÉLECTRICITÉ MÉDICALE

Ancne Maison REBEYROTTE & Cie

A. MALAQUIN & DUTERTRE, Srs

INGÉNIEURS-ÉLECTRICIENS

48, Rue Monsieur-le-Prince

Téléphone 809-60 – PARIS

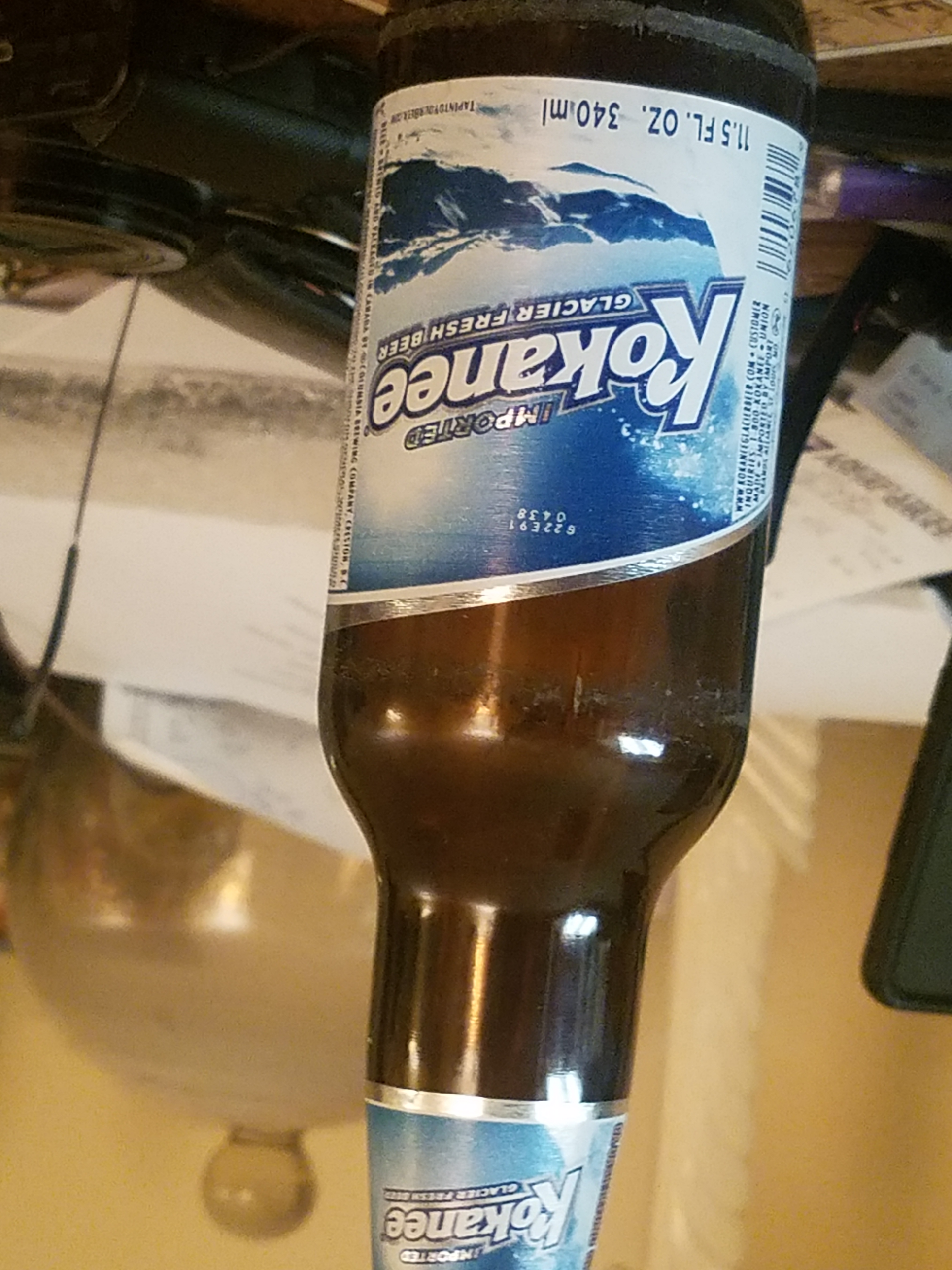





EDISON MAZDA
TUALATIN VALLEY ELECTRIC
COMPANY
1925




DYNATONE
SERIES 80
SERIES 80


Kokanee
IMPORTED
GLACIER FRESH BEER
11.5 FL. OZ. 340 ml




MANN ULTRA-VIOLET PROJECTOR
110 VOLT. A.C. OR D.C.
ULTRA MANUFACTURING CO. CHICAGO.


PHILIPS




AGRA






SAFE
HEALTH LAMP



IMPORTANT
CLOSE DOOR BEFORE CONNECTING

Model 789
ULTRA VIOLET GENERATOR
110 VOLTS — 10 AMPS.

Healthmates




AURORA


Detox

50
9 × 6
Yellow
Detoxicant Loeb
Sun

50
9 × 6
BLUE SUN
LOEB

50
8 × 6
PRISMASTIC
SPECTRUM LOEB
SUN

50
9 × 6
TUNGSTEN LOEB
SUN

50
9 × 6
BLUE SUN
LOEB




SPECTRUM (LOEB)
PRISMATIC


MODEL
A
LAMP
DIVISION
LABORATORIES
INC.
DO NOT LOOK
LAMP WITHOUT WEARING
GOGGLES!

















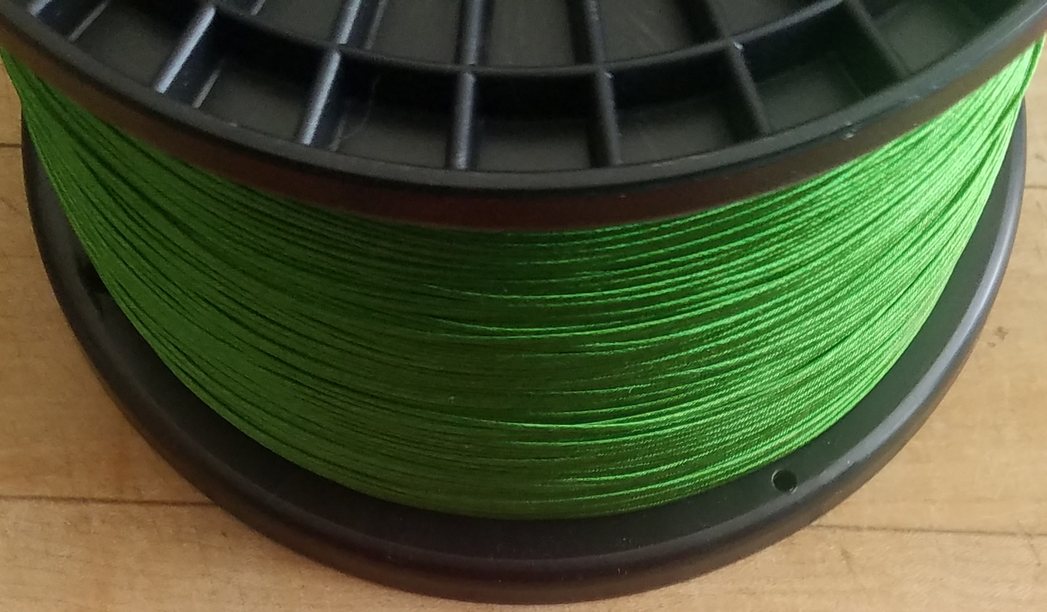

ENERGIZER











"B", "C" and "K" CARBONS radiate intense ultra-violet light.

"E" CARBONS radiate infra-red and less ultra-violet light.

READ INSTRUCTIONS on INSERT in package.

117/03

10

National

TRADE-MARK

THERAPEUTIC CARBONS

COPYRIGHT MCMXXXIX

NATIONAL CARBON COMPANY, INC.

CLEVELAND, OHIO

MADE IN U. S. A.

117-03

THERAPEUTIC CARBONS must be used under a physician's direction.

CAUTION: PROTECT EYES with dark glass, light-tight goggles.

EXCESS EXPOSURE may cause severe sunburn.

Intended for Physician's Use

SUNSHINE CARBONS radiate a light similar to natural sunlight.

READ INSTRUCTIONS on INSERT in package.

10

National

TRADE-MARK

SUNSHINE CARBONS

COPYRIGHT MCMXXXIX

NATIONAL CARBON COMPANY, INC.

CLEVELAND, OHIO

MADE IN U. S. A.

CAUTION: PROTECT EYES with dark glass, light-tight goggles.

Time your Sun-Bath to Avoid Severe Sunburn.

Not for Therapeutic Use unless under a Physician's Direction.

*Intended for Physicians' Use*

*A Daily Sun-Bath is Good for You*

...CARBONS
...ultra-violet
...diate infra-
...olet light.
...ONS on

10
National
THERAPEUTIC CARBONS
NATIONAL CARBON COMPANY, INC.
CLEVELAND OHIO

MADE IN U. S. A.

THERAPEUTIC CARBONS
...must be used under
...con's direction.
CAUTION: PROTECT
...with dark glass
...goggles.
EXCESS EXPO
...cause severe sun

Designed for Use in Light Therapy

10

Sunshine

NATIONAL
CLEVE

MADE IN U. S. A.

CAU
Wi

For Sunlight Exposure at Home

DIRECTIONS FOR T

# Chloride of Silver D[illegible] adic Battery.

*Patented*

BOTH CELLS




**To Start the C[illegible]nt.**—Push the switch [illegible] does not start at once, tap the vibrator spring [illegible] this not succeed in starting the [illegible] a very slight turn backwards [illegible] sharp buzzing sound. When through [illegible] once. C is the interrupting spring, by [illegible]nt may be interrupted at will.

**To U[illegible] the Prim[illegible] Current.**—Place the tips of the [illegible] conduct[illegible] the end of the primary and short [illegible] circuit the insta[illegible] of [illegible] with the D shaped clip as in fig[illegible] ure 2. Increase [illegible] strength of the current by drawing out the second[illegible] coil as in figure [illegible]

**To use the Fine Wire C[illegible]** [illegible] out the second[illegible] to the position sho[illegible] figure 3. Insert [illegible] tips in the sockets [illegible] to increa[illegible] se the streng[illegible] of the current by sliding the [illegible] on dry [illegible] ward over primar[illegible] and decrease [illegible] the coil to[illegible] ward position.

**To use the Coarse Wire S[illegible]dary**

spool entirely out of box and [illegible] sert the cord tips in sockets [illegible] to [illegible] strength of current as for fine wi[illegible] read. This side up in

**Capacity** of the Battery, both c[illegible] must [illegible] ent one cell may be turned [illegible] his side up out of circuit. [illegible] ently towards the right and lift it out; [illegible] place the other end wit[illegible] [illegible] of springs and [illegible] s into place.

**NO[illegible] ACTION** as long [illegible] the [illegible] position the coil [illegible] HORIZONTAL position.

**Mode[illegible] Current** is needed. By putting [illegible] circuit when only [illegible] the Battery is used, both cells [illegible] one cell only in circuit and chang[illegible] them [illegible] and your battery will last four [illegible] as long [illegible]

[illegible] in zinc [illegible] and dry well after using

[illegible] and F[illegible] [illegible] RODES of most recent patterns [illegible]

[illegible] John A. Barren [illegible] [illegible] more City, Md

Chloride of Silver


SHELTON ELECTRIC
LABORATORIES






THE ROCKS
CARBONMONSTER








BEAD LOCK
MANUFACTURING
Eagle










15 7 2








CESCO
CHICAGO
ELECTRIC
SCIENTIFIC CO.
30 WATTS
PATENTED
U.S.A.
120 VOLTS
A.C.OR
UL

CHICAGO
ELECTRIC
SCIENTIFIC CO.

CESCO

120 VOLTS
A.C. OR

30 WATTS
PATENTED
U.S.A.

LISTED UNDER
RE-EXAMINATION SERVICE
UL
OF
UNDERWRITERS' LABORATORIES



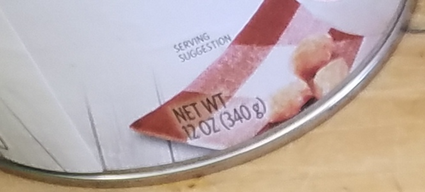









Graphophone Grand
A.C. OR D.C.
MADE BY
THE AMERICAN GRAPHOPHONE COMPANY
CHICAGO & TOKYO


SERVING SUGGESTION
NET WT.
12 OZ (340 g)


TRADE
VITA
MARK
VITA CORPORATION.
CLEVELAND.OHIO

NET WT
12 OZ (340 g)

ENERGEX
TYPE HF
130 WATTS
120 VOLTS
A.C. or D.C.
UL

ENERGEX

TYPE HF

30 WATTS

PATENTED

U.S.A.

120 VOLTS

A.C. or D.C.

UL




STERLING CORPORATION
THE L
ELECTRICAL
LABORATORIES
No 5538
MADE IN U.S.A.
VELAND, OHIO U.S.A.






LA PONTE
AUCH


ELECTRO TECHNIC PRODUCTS, INC.
4642 NORTH RAVENSWOOD
ETP
RD-10A
120 VOLTS 50/60 HZ .35 AMPS
HIGH FREQUENCY GENERATOR

ELECTRO TECHNIC PRODUCTS, INC.

4642 NORTH RAVENSWOOD

CHICAGO, IL U.S.A.

MODEL BD-10A

120 VOLTS 50/60 HZ .35 AMPS

HIGH FREQUENCY GENERATOR



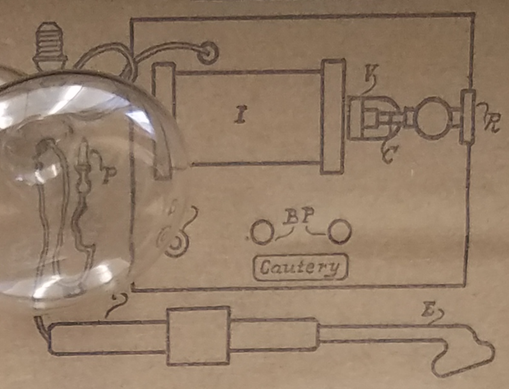





WESTERN ELECTRIC CO.



## DIRECTIONS




H Handle. E Electrode.
C Contact points. V Vibrating spring.
I Interrupter coil. S Socket for plug P.
P Plug to insert in socket S.
R Regulating screw for high frequency and cautery.
BP Binding posts to attach cautery cords.

Screw the attachment plug in any lamp socket affording 110 volt direct or alternating current and the No. 7 Coil is ready to work. Turn on the snap in the lamp socket and the vibrating spring will begin to buzz and a spark will be observed at C. If for any reason it should fail to buzz, adjust the regulating screw R.

**For High Frequency.** Insert plug P in socket S and insert electrode E in handle H, pressing it gently but firmly until it engages the contact spring inside of the handle. Unscrew the regulating screw R until it no longer touches the vibrating spring, then place the electrode E in contact with the skin of patient and turn regulating screw R carefully until a spark is formed at C. The current may be made mild or strong as desired by turning the regulating screw to make light or heavy contact.

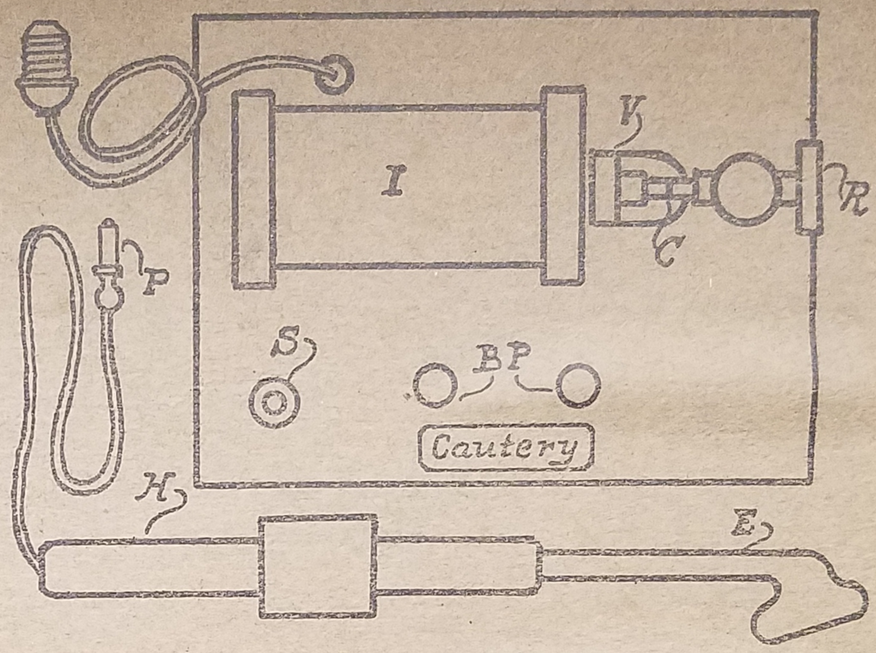
**For Cautery.** Attach the cautery electrode to the handle and heavy cautery cords furnished, attaching them to binding posts B P. Plug P should be removed from socket S when using cautery. Loosen regulating screw R until no spark is observed, then press the spring on cautery handle to close the circuit and turn on regulating screw R carefully until the desired heat of cautery knife is obtained.

**CAUTION!** As soon as through using the apparatus, turn off the snap in lamp socket or, better still, unscrew the attachment plug so as to turn off the current. Each coil is tested for an hour's [illegible] With proper care





## DIRECTIONS




*H Handle.* *E Electrode.*
*C Contact points.* *V Vibrating spring.*
*I Interrupter coil.* *S Socket for plug P.*
*P Plug to insert in socket S.*
*R Regulating screw for high frequency and cautery.*
*BP Binding posts to attach cautery cords.*

Screw the attachment plug in any lamp socket affording 110 volt direct or alternating current and the No. 7 Coil is ready to work, Turn on the snap in the lamp socket and the vibrating spring will begin to buzz and a spark will be observed at C. If for any reason it should fail to buzz, adjust the regulating screw R.

**For High Frequency.** Insert plug P in socket S and insert electrode E in handle H, pressing it gently but firmly until it engages the contact spring inside of the handle. Unscrew the regulating screw R until it no longer touches the vibrating spring, then place the electrode E in contact with the skin of patient and turn regulating screw R carefully until a spark is formed at C. The current may be made mild or strong as desired by turning the regulating screw to make light or heavy contact.

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**CAUTION!** As soon as through using the apparatus, turn off the snap in lamp socket or, better still, unscrew the attachment plug so as to turn off the current. Each coil is tested for an hour's continuous operation, in the factory, which is longer than any treatment ever desired. With proper care this instrument will last for many years.


CAUTERY






STRONG
OFF


STERLING
CORPORATION
CLEVELAND OHIO U.S.A.



VIM

PATE
APPLIED F

EMPIRE ELECTRIC C
A.C.-110 VOLTS-D.C.







MANUFACTURED BY

THE ROGERS ELECTRIC

LABORATORIES CO.

CLEVELAND, - - OHIO

TYPE D No. 2682

PAT. DEC. 1, 1914

"EMPIRE"
HIGH FREQUENCY
GENERATOR




mpire"
OFF
High Frequency
Machine
1401

MANUFACTURED BY

SPITZ ELECTRICAL LABORATORIES

CHICAGO, ILL. OAKLAND, CALIF.


TURN OFF
VOLTS
WATTS
50
100-120
NO
TURN ON
LINDSTROM & CO-CHICAGO






TEST


PRIMARY


Dr Teal's
KIRKLAND
STOOL SOFTENER
WAL-MART PHARMACY
TEST
SLOW
FAST
SINGLE
PRIMARY


TEST
PRIMARY


5500 TURNS
750 TURNS

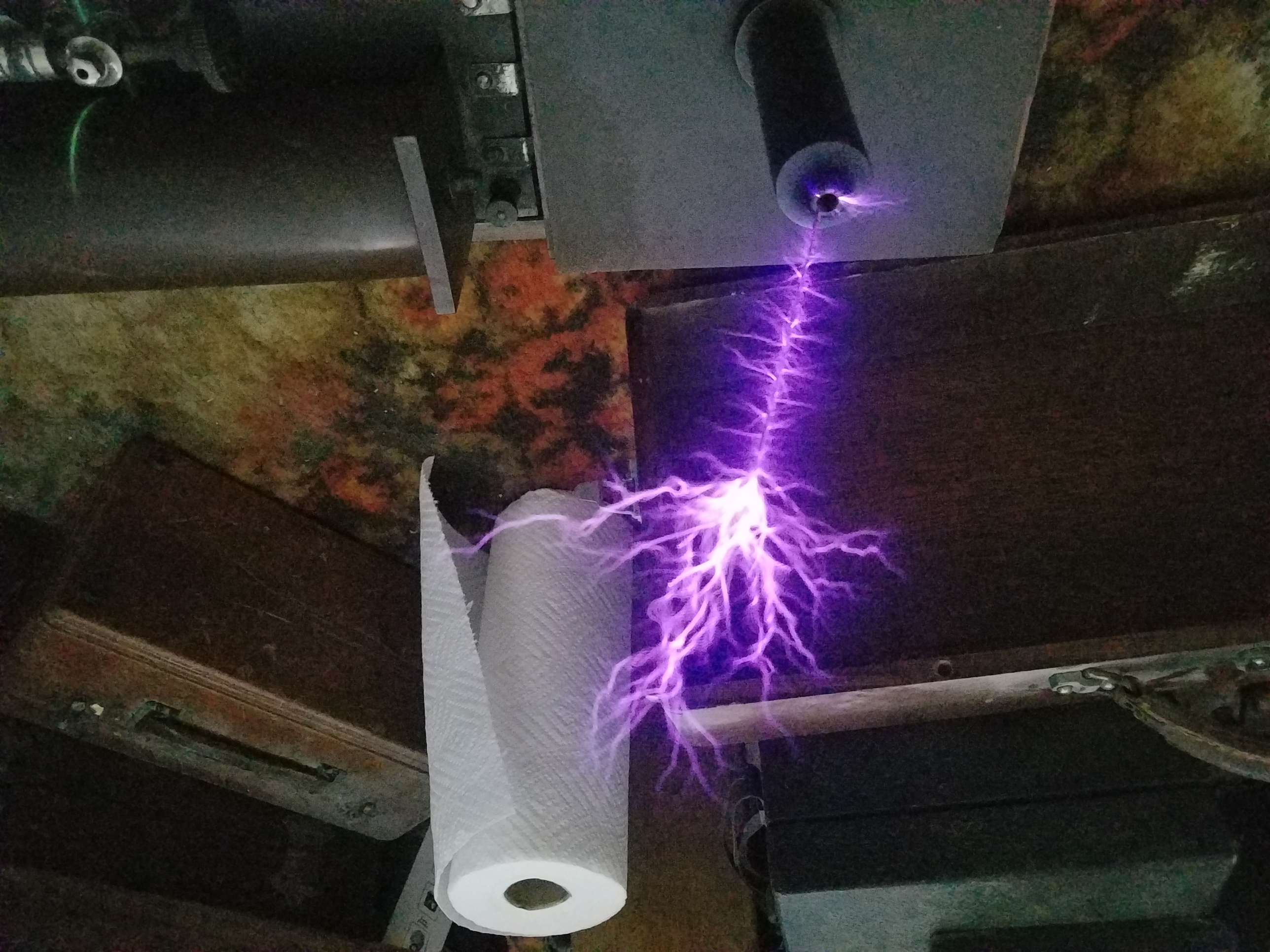



GALVANIC
AND
FARADIC BATTERY


McINTOSH
GALVANIC
AND
FARADIC BATTERY CO
CHICAGO ILL.
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340

CAMPBELL HIGH FREQUENCY COIL
VOLTS Amp Cycles No
CAMPBELL BRO'S. LYNN. MASS.


CAMPBELL HIGH FREQUENCY COIL
VOLTS 110 AMP. 4 CYCLES 60 Nº 367
CAMPBELL BRO'S, LYNN. MASS.











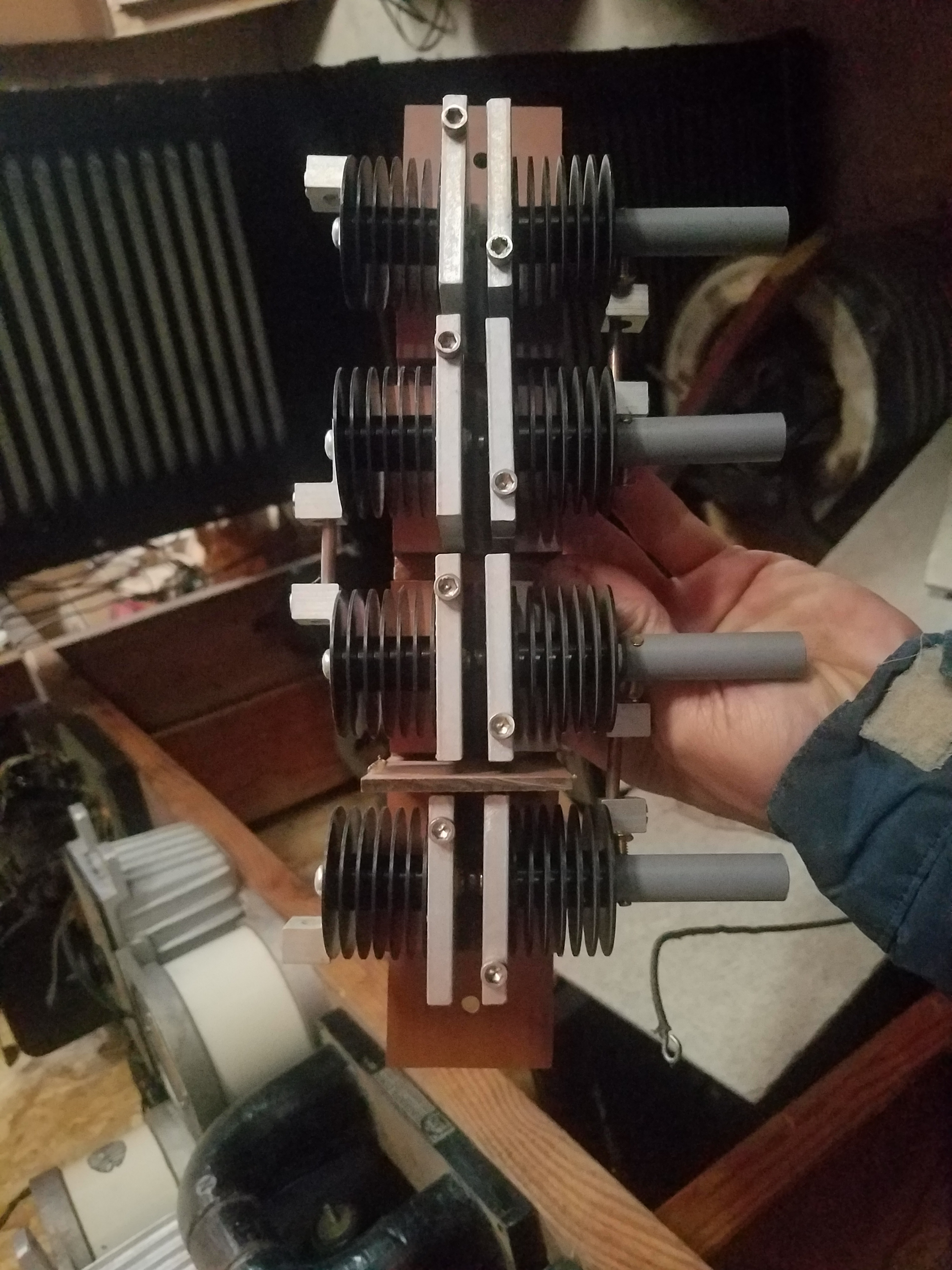



Electron Tubes
SCHLITZ
STOUT MALT
LIQUOR





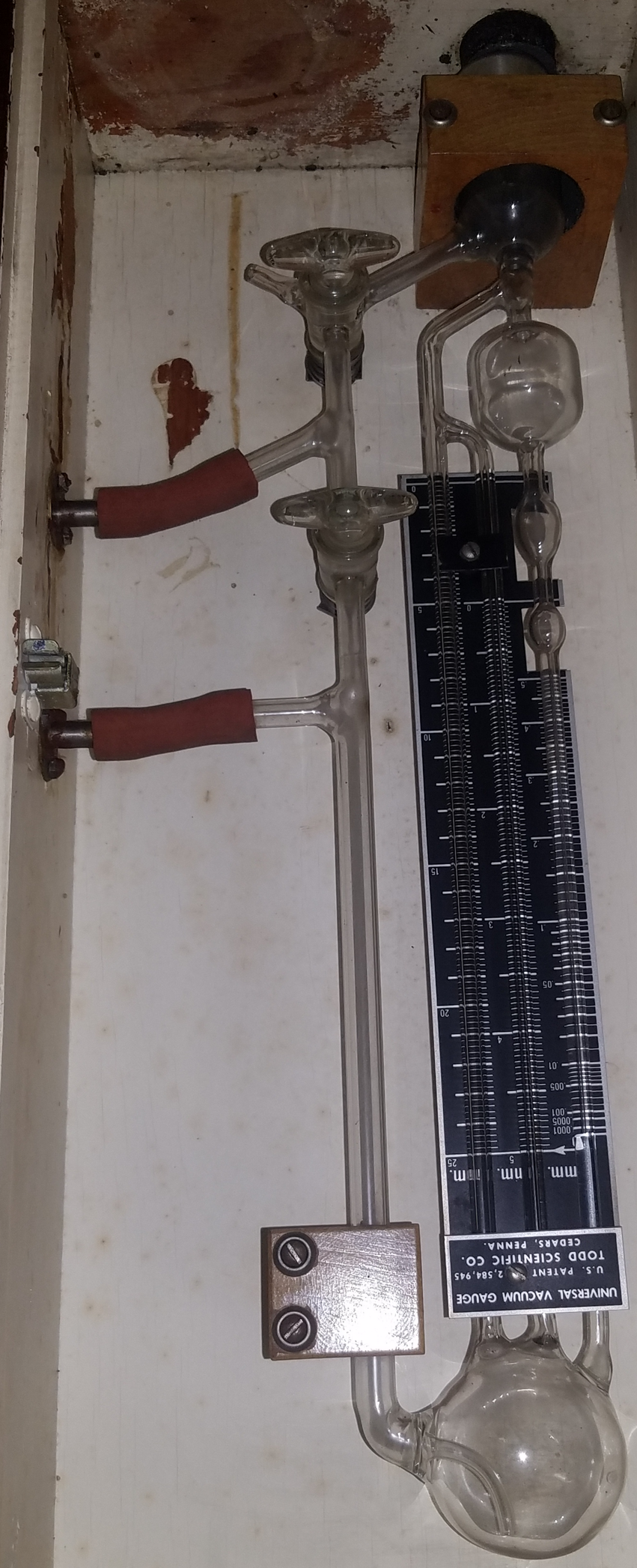








UNIVERSAL VACUUM GAUGE
U.S. PATENT 3,384,345
TODD SCIENTIFIC CO.
COMPT. PENNA.


UNIVERSAL VACUUM GAUGE
U.S. PATENT 2,584,945
TODD SCIENTIFIC CO.
CEDARS, PENNA.
mm.
cm.
m.

Additional Instructions for the operation of the Universal Vacuum Gauge.

1. Due to possible leakage of the lower stop cock, it is recommended that 2 vacuum pumps be used with the top stop cock closed after pump down to separate the cistern from the system during normal operation of less than 25 MMHG.

2. For one pump operation observe the following rules:
   A. Connect system to be evacuated to upper connection.
   B. Seal off lower connection.
   C. Open both stop cocks and evacuate system until stabilized, then take reading.
   D. Return mercury to cistern and pump down system.
   E. Close top stop cock and allow system about 5 minutes to stabilise, then read. Verify results by repeated readings with upper stop cock in both positions. If higher vacuum is apparent with the stop cock closed, then leakage of the lower stop cock is indicated and readings should be taken with the top stop cock closed.

KEEP UPRIGHT
CONTAINS MEDICAL
WHICH SHOULD STAY OUT




Wahler



Western Coil & Electrical Co.
MFRS.
VI-RAY-O
Racine, Wis., U.S.A.
PATENT



GENERAL ELECTRIC

SUNLAMP

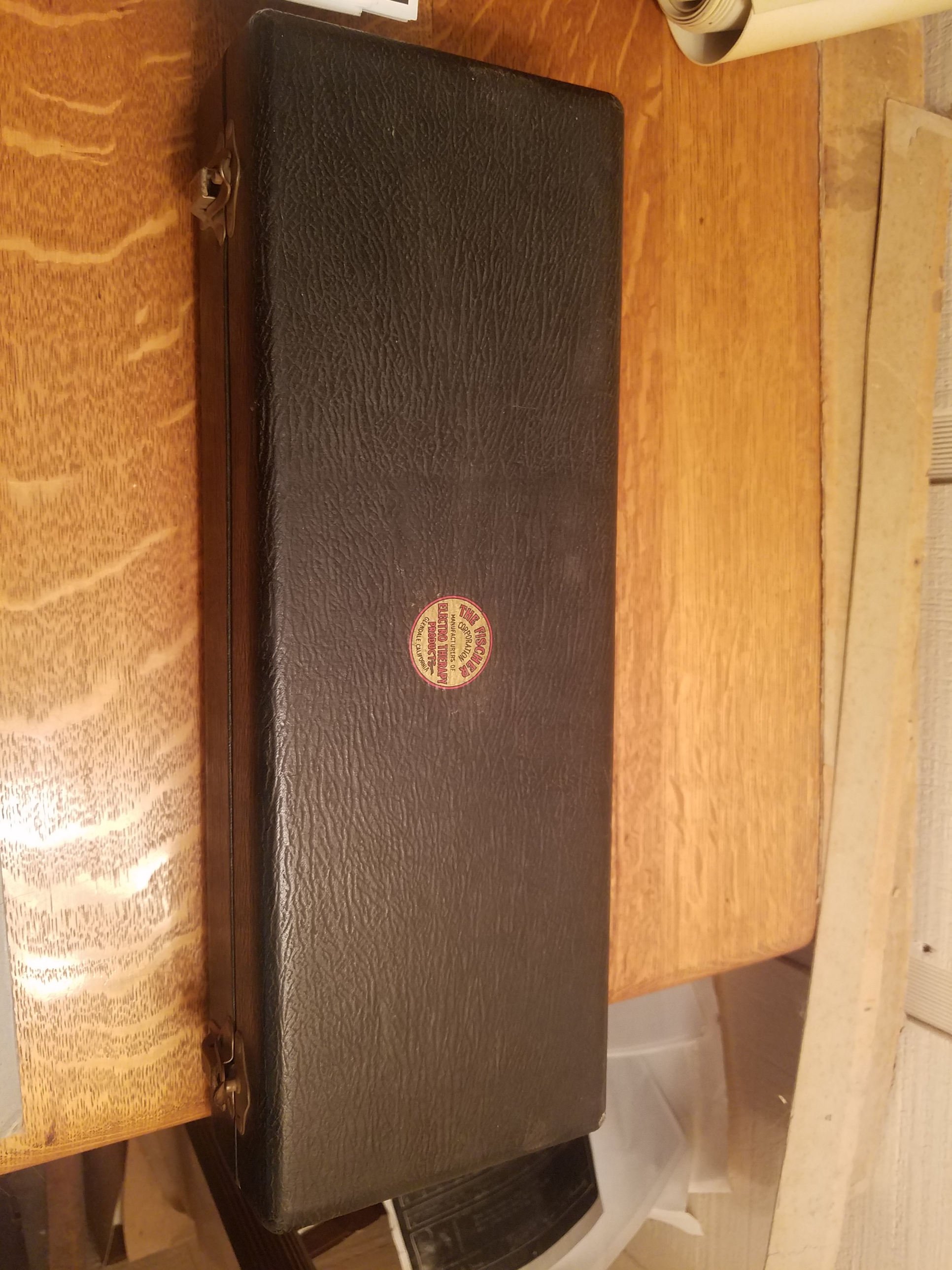
CAUTION! BEFORE INSTALLING OR OPERATING READ INSTRUCTIONS
IMPORTANT! THIS LAMP PRODUCES SUNBURN. AVOID OVEREXPOSURE

CAT. 4167&15-2 W. 160

VOLTS 110/120 CYC. 60

N.P. 55557 GENERAL ELECTRIC CO., U. S. A.




THE FISCHER
CORPORATION
MANUFACTURERS OF
ELECTRO THERAPY
PRODUCTS
GLENDALE, CALIFORNIA



R. A. FISCHER & CO., GLENDALE 3, CALIF.
MODEL 32
120 V. AC. 50-60 CYC. .3A. 23W. SER. NO. 01244



Birtcher BUILT

# SHORT-WAVE ULTRA-VIOLET GENERATOR

The Birtcher-Built Short-Wave Ultra-Violet Generator is fabricated from pure fused crystal quartz, and when energized by the high frequency currents from your Short-Wave machine, develops virtually monochromatic ultra-violet radiation in the highly germicidal band around 2536 Angstrom Units.

Behneman, Bachem, Hibben, and others, have reported upon the germicidal properties of ultra-violet radiations of the shorter wave lengths, and have attested to the value of this portion of the ultra-violet spectrum in the treatment of a wide variety of common conditions including Sluggish Ulcers, Endocervicitis, Vincents Infection, Acne, Lupus Vulgaris, Impetigo, and Psoriasis.

With the advent of the Birtcher-Built Short-Wave Ultra-Violet Generator it is no longer necessary for the doctor owning a Short-Wave machine to invest in a second large piece of equipment in order to have at his command the manifold benefits of ultra-violet energy for all local and orificial applications.

### CAUTION!

Since this Generator emits intense ultra-violet radiations capable of producing a painful conjunctivitis, it is always desirable to protect the patient's eyes by having them covered with cotton packs. The doctor should always use the form fitting goggles provided. If radiation is desired from tip of generator only, use the sleeving provided to shield stem of the quartz tube.



### INSTRUCTIONS FOR USE:

Connect a large Short-Wave pad to one of the two terminals ordinarily used when giving treatments with the Pad Applicators. Place this pad near enough to the patient to establish a good intensity within the burner when it is connected to the other outlet of the Pad circuit. Operate the machine as you would in giving an ordinary Short-Wave treatment, advancing the power control just enough to light the Generator and to produce an even and constant glow. Since all Short-Wave machines vary somewhat as to resonance characteristics, it may be necessary to try out varying distances between the indifferent pad and patient, and varying settings of the power output dial in order to obtain optimum results.

It is important that the quartz burner be kept clean and free from dust and grease, and that the area to be irradiated be grease free in order to obtain maximum penetration. It is suggested that the quartz burner be wiped off with Acetone, alcohol, or ether, after each treatment, and that the area to be irradiated be swabbed with alcohol immediately preceding exposure.

### IMPORTANT:

The Birtcher-Built Short-Wave Ultra-Violet Generator has been designed to operate effectively with any make or model of Short-Wave machine. However, since outlet terminals have not been standardized it is important to specify the make and model of your machine when ordering. Should the cord tip on the Generator contained herein not fit your Short-Wave machine, notify your dealer at once and advise him to deliver you a replacement Generator with the proper cord tip.

THE BIRTCHER CORPORATION • LOS ANGELES, CALIFORNIA, U.S.A.



Birtcher BUILT

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THE BIRTCHER CORPORATION • LOS ANGELES, CALIFORNIA, U.S.A.



HANOVIA

# *Sunnette*

QUARTZ HEALTH LAMP

CAT. NO. 25,500

115 VOLTS 60 CYCLES

140 WATTS 3.9 AMPS.

Do not operate continuously

over one hour.

HANOVIA Chemical & Mfg. Co.

Newark, N. J., U.S.A.

HANOVIA
*Sunnette*
QUARTZ HEALTH LAMP
CAT. NO. 25,500
115 VOLTS 60 CYCLES
140 WATTS 3.9 AMPS
Do not operate continuously
over one hour.
HANOVIA Chemical & Mfg. Co.
Newark, N. J., U.S.A.



DR. JEROME KIDDER

PATENTED

MAR. 15. 1864 - JAN. 16. 1866

SEP. 18. 1866 - AUG. 10. 1869

* RE-ISSUE - JAN. 4. 1876

* ENGLAND - JULY 31. 1865

* FRANCE - AUG. 3. 1865

NEW YORK




KIDDER MFG. CO.

VIOLET RAY
HIGH FREQUENCY
GENERATOR
VITA CORPORATION
CLEVELAND, OHIO.
PAT. APR. 7, 1914 OTHER PATS. PEN

## Wickham's Portable Electro Magnetic Battery.

**FLUID.** *Mix one fluid ounce of commercial Sulphuric acid with one pint of water and then dissolve therein one ounce Bichromate of Potassa.*

*Always connect the posts P and N on the cell, with the same posts on the stand. If the spring does not vibrate, start it with the finger, or adjust the screw.*

*If the primary (weaker) current is wanted, take the current from P 1 and N 1. If the secondary (stronger) current is wanted, take the current from P 2 and N 2.*

*When the Battery is not in use, remove the elements and cover the jar. Wash the plates occasionally. Never fill the jar more than half full.*

**HORACE WICKHAM, E. M. D.,**

—Manufacturer—

**Electric Batteries. Repairing and Supplies.**

Also Original Inventor and Only Manufacturer of

MAGNETIC GARMENTS, USING HORSE SHOE MAGNETS.

——*They never lose power.*——

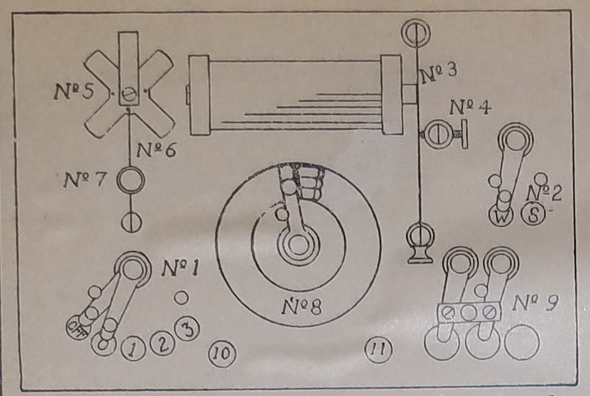
**106 & 108 Grand Ave.,** opposite Plankinton House, **Milwaukee, Wis.**

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DIRECTIONS


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# DIRECTIONS




To run the battery on one, two or three cells, turn top lever of switch No. 1 to button No. 1, 2 or 3 and the lower lever to 0. See that the levers rest on the middle of the buttons. Always turn the levers to the button OFF and 0 when not using the instrument.

**FOR FAST INTERRUPTIONS** turn switch No. 2 to button S. This will set the "Singing Rheotome" or vibration spring No. 3 in operation. If the vibration spring does not readily vibrate upon starting the instrument, give it a slight impulse with the finger, and if this should fail, see that the vibration screw No. 4 is so regulated that the points barely rest against the spring. These points of contact should be kept clean.

**TO OBTAIN SLOW INTERRUPTIONS,** turn switch No. 2 to button W and give the Wheel Rheotome No. 5 a start with the finger. Spring No. 6 should be adjusted so as to touch the pin on the Wheel Rheotome. THE SLOWEST INTERRUPTIONS are obtained by unloosening thumb screw No. 7, so that the spring will rise and only touch the end of the longest pin. NEXT TO SLOWEST by letting it touch the end of the next shorter pin, and the FASTEST by adjusting it so as to touch all pins. The currents can be increased by turning the switch of the Graphite Rheostat No. 8 in the same direction as the hands of a clock. Do not wet or rub the surface of the Graphite Rheostat, as this may spoil it. If necessary, dust it with some fine cotton. When the pole changer No. 9 is turned to the right, Post 10 becomes positive and Post 11 negative. When it is turned to left, Post 11 becomes positive and Post 10 negative. To recharge the battery, loosen the screws at the lower edge of the box, let the cell box drop out from the bottom, put in new cells and connect them as before. There are four wires marked 1, 2, 3 and 4; connect these to post marked 1, 2, 3 and 4 on cell box. The sponge electrodes should be wet when used. Do not leave anything on the battery plate that will touch the metal parts, as it may short circuit the cells.

Keep the battery closed when not using it.


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